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<p>50809 D/28 A21 SUMO 25.10.79 SUMITOMO CHEMICAL KK 25.10.79-JP-138370 (26.05.81) C08g-59/14. C08L-27/06 C09k-03/10</p>	<p>A(5-A1D, 10-E1) 427</p>
<p>Modified epoxy resin prodn. - by reacting epichlorohydrin epoxy resin with polymerised fatty acid and then with isocyanate cpd.</p>	<p>Prefd. (C) includes polyester polyol, isocyanate gp.-contg. urethane prepolymer. The reaction temp. is 50-300°C for the reaction of (A) with (B) and 40-150°C for the reaction of the OH gp.-contg. epoxy resin with (C). (5ppw 136).</p>
<p>Modified epoxy resin is prepd. by reacting (A) polyvalent phenol, epichlorohydrin type epoxy resin with (B) a polymerised fatty acid, reacting the prod. with (C) an isocyanate gp.-contg. cpd., or reacting (A) with (C) and reacting the prod. with (B) in above 2 equiv. of epoxy gp. to 1 equiv. of carbonyl gp. and in above 4 equiv. of OH gp. to 1 equiv. of isocyanate gp.</p>	
<p>ADVANTAGE The modified epoxy resin has excellent flexibility and impact resistance.</p>	
<p>DETAILS (A) is the epoxy resin prepd. by the reaction of e.g. bisphenol A, bisphenol F, catechol or resorcinol with e.g. epichlorohydrin. Bisphenol A - epichlorohydrin epoxy resin is pref. used. (B) is obt. by dimerising the unsatd. fatty acid contained in natural fat and oil (e.g. bean oil, cotton seed oil).</p>	

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